LESSON PLAN WINTER(2023-24)(Mechanical) (Civil)

DISCIPLINE: Computer Application	SEMESTER: 1st	NAME OF THE TEACHING FACULTY: Rabindra Kumar Rout		Sri
Subject: Computer Application	**No. of Days/per week class allotted: 04classes**	**Semester From date:18.09.2023 to Date:09.012.2023**		
		No. of Weeks: 17		
Week	**Class Day**	**Theory Topics**		**No of periods allotted**
1st		CHAPTER -1: COMPUTER ORGANISATION		1
		1.1 Introduction to Computer		1
		1.2 Evolution of Computers		1
		1.3 Generation of Computers		1
2nd		1.4 Classification of Computers		1
		1.5 Basic Organization of Computer (Functional Block diagram), Input Devices, CPU & Output Devices		1
		1.6 Computer Memory and Classification of Memory		1
		CHAPTER – 2: COMPUTER SOFTWARE		1
		2.1 Software concept		1
3rd		2.1.1 System software		1
		2.1.2 Application software		1
		2.2 Overview of Operating System		1
		2.2.1 Objectives and Functions of O.S		1
4th		2.2.2 Types of Operating System: Batch Processing, Multiprogramming &Time Sharing OS		1
		2.2.3 Features of DOS, Windows and UNIX		1
		2.3 Programming Languages		1
		2.4 Compiler, Interpreter		1
5th		2.5 Computer Virus, Different Types of computer virus		1
		2.5.1 Detection and prevention of Virus		1
		2.6 Application of computers in different Domain		1
		CHAPTER –3: COMPUTER NETWORK AND INTERNET		1
6th		3.1 Networking concept, Protocol, Connecting Media, Data Transmission mode		1
		3.2 Network Topologies, Types of Network		1
		3.2.1 Network Topologies		1
7th		3.3 Networking Devices like Hub, Repeater, Switch, Bridge, Router, Gateway & NIC		1
		3.5 Different types of Internet connectivity and ISP		1
		CHAPTER – 4: FILE MANAGEMENT AND DATA PROCESSING		1
		4.1 Concept of File and Folder Concept		1
		4.2 File Access and Storage methods. Sequential, Direct, ISAM		1
8th		4.3 Data Capture, Data storage, Data Processing and Retrieval		1

		CHAPTER –5: PROBLEM SOLVING METHODOLOGY	1
		5.1 Algorithm, Pseudo code and Flowchart	1
9th		5.2 Generation of Programming Languages	1
		5.3 Structured Programming Language	1
		5.4 Examples of Problem solving through Flowchart	1
		CHAPTER – 6: OVERVIEW OF C PROGRAMMING LANGUAGE	1
10th		6.1 Constants, Variables and Data types in C	1
		6.2 Managing Input and Output operations.	1
		Practice related Programs.	1
		Practice related Programs.	1
		Practice related Programs.	1
10th		6.3 Operators, Expressions, Type conversion & Typecasting	1
		Practice related Programs.	1
	Practice related Programs.		1
		6.4 Decision Control and Looping Statements (If, If-else, If-else-if, Switch, While, Do- while, For, Break, Continue & Goto)	1
11th		Practice related Programs.	1
		Practice related Programs.	1
		Practice related Programs.	1
		6.5 Programming Assignments using the above features.	1
12th		CHAPTER –7: ADVANCED FEATURES OF C	1
		7.1 Functions and Passing Parameters to the Function (Call by Value and Call by Reference)	1
		Practice related Programs.	1
		Practice related Programs.	1
12th		7.2 Scope of Variables and Storage Classes, Recursion, Function and Types of Recursion	1
		Practice related Programs.	1
		Practice related Programs.	1
		Practice related Programs.	1
13th		7.3 One Dimensional Array and Multidimensional Array, String Operations and Pointers	1
		Practice related Programs.	1
		Practice related Programs.	1
		7.4 Pointer Expression and Pointer Arithmetic Programming, Assignments using the above features.	1
14th		Practice related Programs.	1
		Practice related Programs.	1
		Practice related Programs.	1
		7.5 Structure and Union (Only concepts, No Programming)	1
15th		Revision	1
		Revision	1
		Revision	1
		Revision	1
16th		Revision	1
		Revision	1
		Revision	1
		Revision	1
17th		Revision	1
		Revision	1
		Revision	1
		Revision	1